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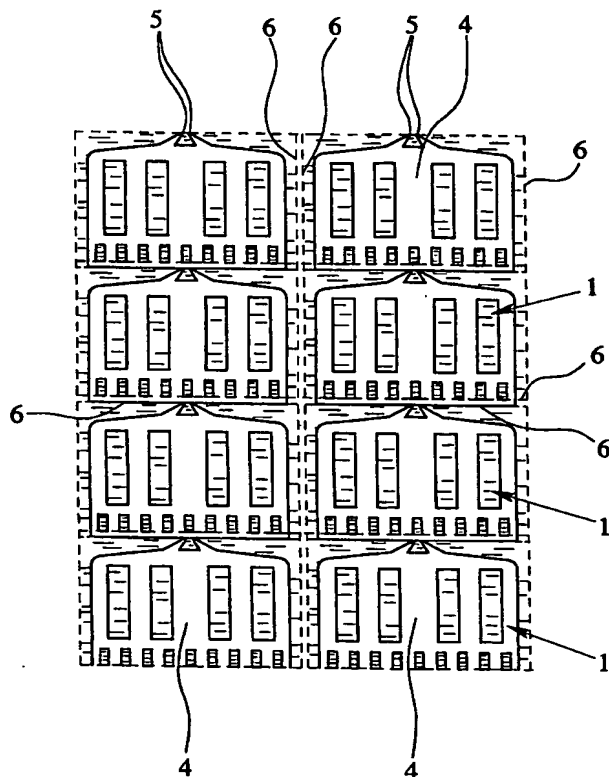
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(54) Title: A PROCESS FOR PRODUCING MICROFLUIDIC ARRANGEMENTS FROM A PLATE-SHAPED COMPOSITE
STRUCTURE



(57) Abstract: This invention relates to a process for
producing a multiplicity of micro fluidic arrangements
(1) from a plate-shaped composite structure, wherein each
arrangement comprises a groove structure (4) which forms
flow channels and the dimensions of which are in the
micrometre range. The lines (6) for the optional subsequent
mechanical separation of bridging groove structures (4) are
joined to each other and are partly or completely filled with
a filling medium (7) before mechanical machining. The
medium (7) is selected so that it is not removed from the
groove structures (1) either by the mechanical machining
or by aids used during mechanical machining. Afterwards,
however, the filling medium (7) is removed from the groove
structures (6) by suitable measures. The groove structures
(4) are thereby prevented from becoming blocked due to
mechanical contaminants. An atomiser which is provided
with the nozzle arrangement is also proposed.

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